

Informatik Image Driver Version 3.0

**Windows 2000, XP, 2003 Server, Citrix
(excluding NT4)**

User Guide

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Please print out this manual.

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Compatibility

Version 3.0 of Informatik Image Driver is supported by Windows 2000, XP, 2003 Server (including remote server, sharing), Windows Terminal Server (WTS), Citrix. For Windows NT please use version 2.5. A separate version is available for Windows 98.

Important! Server requires a **server version**; the standard desktop version will not run on a server. Server version can be downloaded from www.informatik.com and www.hsm.ch websites.

Introduction

The Informatik Image Driver creates TIFF and PDF (and JPEG) files from virtually any Windows document. Simply open the document (for example open a Word file in Microsoft Word), choose Print from the File menu, select the Informatik Image Driver 3.0 as the printer, press the OK button, in the Informatik Image Driver dialog window specify the output folder, file name and other settings, and press the OK button. This is, of course, somewhat of an over-simplification; there are many features and options as explained in this user guide. For advanced and unattended use, many settings can be assigned programmatically.

This help document covers the version of the Informatik Image Driver for Windows 2000, XP, 2003 Server. Separate versions are available for Windows NT4 and Windows 95/98/Me.

Before you use the program please read the licensing terms and conditions in License, Warranties, Disclaimer section below. By using this program you agree to all the terms and conditions of the license.

Demo Version

You may use this demo version only for the purpose of evaluating the program. The demo version creates valid TIFF and PDF output; the output files are no longer crippled. After 30 days or after 50 print jobs you must uninstall the program or purchase a software license. We trust that you respect these conditions. It is unlawful to use the demo program after 30 days or after 50 print jobs.

Versions

Informatik Image Driver is available in two (2) distinct versions:

A. Stand-alone PC version

The stand-alone version is installed and run on a PC or workstation (single-seat). The driver can only be used locally on that PC. The share and WTS capabilities are disabled. However, output files can be saved to any folder that is accessible to the user, locally or on networked drives. The stand-alone version can also be installed on a server for strictly

local use (no sharing or remote use). For a correct installation, Administrator rights may be required.

A single-seat software license is required for each PC or workstation on which the driver is installed.

B. Server version.

The server version is designed for comprehensive network use. It supports remote, shared and local processing and is fully compatible for Windows Terminal Server (WTS) and Citrix. The driver is installed on the server and can be shared. The output files can be saved to any local folders of the server, and to folders for which the logged-in user has WRITE permission.

The appropriate server/multi-user software license must be purchased. Installation of the driver on Citrix requires a special license.

Installation

1. If you are installing from a zip file (a compressed download file with a .zip extension), unzip the zip file first into a separate folder (we recommend that you create and use the c:\imagedriver folder).
2. Before you install the Informatik Image Driver, check if you already have a previous version of the driver installed on your system. If you already have the Informatik Image Driver installed (licensed or demo, current or previous versions) you must first un-install the driver, then restart Windows. For a clean un-install of the driver please use the **REMPRRN remprn.exe** driver uninstall utility. This utility is included with all our driver distributions. If you do not have the REMPRN utility, please download it from www.Informatik.com/driver.
3. In the Windows Explorer double-click on the imagedriver.exe or installer.exe file and the driver will install itself in a matter of a few seconds. Follow the prompts.
4. A message will appear asking whether you want to make this driver as your default printer. Choose Yes or No.
5. A message on the Installer window will indicate when the setup is completed.
6. Restart Windows.
7. Check and make sure that the Informatik Image Driver now appears as an icon in the Printers window in the Control Panel. Click on the Start button (lower left corner of the screen); choose Control Panel; choose Faxes and Printers. Informatik Image Driver is a DRIVER and you will not find it in the Start Menu as an icon with other applications. The driver works like a printer and operates via a document's native program (for example Microsoft Word, Excel, or your own printing application).

In the unlikely event that you need special settings (special output formats, resolutions, etc.) you need to enter your preferences in the Printer Control. Generally, no special entries are required and you are urged not to change the defaults until you have used the driver in standard mode and are familiar with its working and capabilities. This manual will explain how you can specify default entries in the Printer Control Panel.

Tutorial

This tutorial will create a multi-page TIFF file from any Windows document.

1. Open the document that you want to convert into a single or multi-page TIFF. For example, to open a Word document, launch Microsoft Word and open the document file from the File menu.
2. Choose "Print" from the document's File menu. The application's Print dialog is displayed.
3. If you didn't specify the driver as the default printer during setup, choose "Informatik Image Driver 3.0" as your printer.
4. (If needed, you can click on the Properties (Preferences) button and specify settings for output graphics format and resolution; see Printer Control Panel below for details. For this tutorial don't make any changes to the properties.)
5. Click on OK.
6. If you are using the Demo version, a nag dialog will indicate how many trial print jobs are left before the demo expires. Click on "OK" to continue.
7. The Informatik Image Driver dialog is displayed.
8. In the Output Folder, type in or change the full directory path of where you want to create your TIFF file (e.g. c:\documents\accounting), or better, click on the Browse button, and select the folder. Do not include the file name in the Output Folder field, and do not add an ending back-slash(\). This entry is normally defaulted from the previous print request.
9. In the Output Filename textbox, type in or change the file name for your TIFF file, or click on the Browse button and select the file. If you use the driver for the first time, the file name is defaulted to a generic file name. Simply overwrite the defaulted file name to a name of your choice.
10. There are several other features and options and you may experiment with them. They are explained in the Informatik Image Printer Dialog and Printer Preferences section below.
11. Click OK. The TIFF file will be created almost instantly. You can check the progress of the file conversion in the Windows task bar at the bottom of the screen.

Printer Control Panel

(Also called Informatik Image Driver Printing Preferences, or Informatik Image Driver Document Properties)

Certain special settings, like output graphics format and resolution, need to be selected in the Printer Control Panel.

The Printer Control Panel is accessed either from the Print window or via the Start menu (Start button at lower left corner of the screen).

a) Open the Printer Control Panel via the Print window:

When you select Print from the File menu, the Print window appears. Select the Informatik Image Driver 3.0 as the printer. Most Print windows include a Property button (sometimes called Preferences, etc). Click on the Property button and the Informatik Image Driver Document Properties window will open (see next section below).

Please note that graphics format and resolution selections made via the Print window persist for the life of the source file's application (for example Microsoft Word). When you re-launch the source file's application, the settings revert back to the defaults originally specified in the Printer Control Panel via the Start button (see next paragraph).

b) Open Printer Control Panel via the Start button:

Click on the Start button (lower left corner of the screen) and select the Control Panel. In the Control Panel double-click on Printers (Printers and Faxes). Among the list of printers you will find Informatik Image Driver. Right-click on Informatik Image Driver and select Printing Preferences. Don't select Properties!. The Informatik Image Driver Printing Preferences window appears (see next section below).

Please note that graphics format and resolution selections made via the Print window (see paragraph above) persist for the life of the source file's application (for example Microsoft Word). When you re-launch the source file's application, the settings revert back to the defaults specified in the Control Panel via the Start button.

Informatik Image Driver Printing Preferences window:

Now you are in the Printing Preferences window. There are four (4) tabs:

- Layout
- Paper/Quality
- Print Output Settings
- About

Click on the **Layout tab** or the **Paper/Quality tab**, then immediately press the **Advanced button**.

All other entries in the Layout or Paper/Quality windows are irrelevant to the use of the Informatik Image Driver and should be ignored. All setup entries relating to output **graphics formats, TIFF compression, Resolution** and **Color depth** are specified via the Advanced button.

Do not use any options in the **Layout** section; these settings are irrelevant to the use of Informatik Image Driver. For Orientation, please see section below.

Do not use any options in the **Paper/Quality tab** section; these settings are irrelevant to the use of Informatik Image Driver. For Color depth, please see section below.

The **Print Output Settings tab** displays the Document Properties or Printing Preferences window that contains settings for output file names, handling options and preferences. You will rarely use this window because the same functions are contained in the Informatik Image Driver Dialog that is always displayed when you request a print (unless the Hide option is selected). For more information see the Informatik Image Driver Dialog and Printing Preference section below.

The **About tab** displays important information about the software license.

In the Layout window or Paper/Quality window, always click on the Advanced button. When you click on the Advanced button the Advanced Options window will appear.

Advanced Options (click on Advanced button in Layout tab or Paper/Quality tab)

The options are:

- Paper/Output
- Graphic
- Document Options

Paper/Output:

Paper Size: Generally you should not use this option. The paper size is controlled by the settings in the source document's application (for example, in MS Word, it is specified in the File | Page Setup). The paper size specified in the Advanced Preferences is used only if the source document does not have a paper size specification. The paper size specified in the source file application will always overwrite any paper size settings in the Informatik Image Driver.

Please see Paper Size section below for instructions on creating your own custom size.

Graphic:

- Resolution: Select between 72, 100, 200, 300, 400 and 600. The default is 300. For other resolutions please see Customization section.
- Scaling: (Do not use, leave it at 100%)

Document Options:

- **Format:** The Format specifies the graphics format of the output file (TIFF or JPEG, compression methods). For more information on graphics formats, please read the Graphics Format section.
- **Halftone Color Adjustment:** (Do not use)

Informatik Image Driver Dialog and Printer Preferences

When you Press the OK button in the Print window (File | Print) the Informatik Image Driver dialog is displayed. This dialog will not be displayed if you previously checked the 'Hide this Dialog' checkbox; if the dialog is hidden you should un-check the Hide Print Dialog checkbox in the Printer Control Panel, Print Output Settings tab (see Printer Control section).

The Informatik Image Driver dialog has the following settings and options:

Output Mode

- Document
- Append
- Serialization

Document Mode creates multi-page TIFF files. For example, if your source file is a 10-page document, the driver will create a 10-page multi-page TIFF file (one single file with 10 pages).

Append Mode will cause the output file to be appended to an existing file. If you process a 5-page source file and save it to a TIFF file that already has 3 pages, the driver will add the 5 new pages to the existing TIFF file, so that the new file will be a TIFF file consisting of 8 pages. If the specified output file name does not already exist, Append mode behaves like Document mode. Please note: Append only to TIFF files created with the Informatik Image Driver (certain standard TIFF files created with other software may be appended to, but verify the result and always make sure that you have backed up the original files). This option is not available when in PDF output mode.

Serialization Mode outputs the pages of the multi-page source file as individual files with a user specified prefix (**Serial Prefix**) followed by a numeric suffix (selected as **Initial Serial Number**). For example, a 3-page source file saved as file SAMPLE (Serial Prefix) will create three files called SAMPLE0001.tif, SAMPLE0002.tif, and SAMPLE0003.tif. The number of leading zeros in the suffix number is specified in the '**Select Number of Digits**' (1 to 5).

If '**Reset after each Job**' is checked, the serial number will be reset to ..001 for each print job.

If the '**Reset after each Job**' is un-checked the serialization numbering will be continuous. To reset the Initial Serial Number to ..001 click on the Reset...button.

This option is not available when in PDF output mode.

Output Selection

- Output Folder
- Output Filename

When you use the driver for the first time, the driver defaults to generic output names. Click on the Browse buttons to select/specify the Output Folder and the Output Filename. Your selections will become the default for the next print job. If no default output folder is specified the driver will use the system's TEMP file instead.

Note that the Folder Name should not have an ending back-slash (\). If the file name does not have an extension, a .tif (or .pdf) extension will be added automatically. If you must create a file without an extension, use a period (.) after the file base name. You can also output the files to a network drive. If you run the driver in a batch mode, the folder and file name can be specified programmatically in the Windows Registry. See Windows Registry section below.

In Serialization mode, the Output Filename field is used for the Prefix of the filename. Do not use an extension name in the Prefix field.

For auto-numbering and auto-naming see next section. For batch processing, please review the Batch Processing section and Windows Registry section.

Miscellaneous Settings

- Auto-numbering of Output File
- Use Source Document Name for Output
- Always Overwrite
- Hide this Dialog
- PDF Output

Some of the options are disabled if the driver is set to Append or Serialization mode.

Auto-Numbering of Output File names the output files by the specified Filename Prefix concatenated with an auto-incrementing suffix. For example if the Filename Prefix is SALES, the output files will be named SALES0001.tif, SALES0002.tif, SALES0003.tif, etc. Each print job increases the serial number by 1. This is not to be confused with Serialization. Serialization serializes the pages of a multi-page file; Auto-numbering numbers the output files (and output files can be multi-page). The auto-number suffix can be reset to zero by clicking on the Reset File# button.

If a prefix is not specified, the output file name will consist of the auto-incrementing number alone, e.g. 0001.tif.

Use Source Document Name for Output applies the source name to the output file, with a substituted extension name. Some programs add the application name as a prefix. Not all

applications pass the correct source file name. If the Trim Source Name is checked, the leading string of the passed source name (up to the right-most encountered space in the source name) is trimmed. This option is useful to trim the application name that is included with the source file name by some applications (for example Microsoft Word).

If **Always Overwrite** is un-checked (default setting), the driver will alert the user if the specified file name already exists; if the Always Overwrite is checked, an existing file is overwritten with the new file without a warning.

If **Hide this Dialog** is checked, the dialog is not displayed. Hiding the dialog is practical only for Auto-numbering of files or for batch processing. To re-display the dialog, the Hide Print Dialog should be un-checked again in the Printer Control Panel, Print Output Settings tab (see Printer Control Panel section).

If **PDF Output** is checked, the output will be formatted as a PDF file. For more information, please see the PDF Output section below.

Select Application to be Launched

When you create the TIFF file, you can cause Informatik Image Driver to automatically launch another application, passing along the output file name as a parameter. (The option is not enabled in the Demo Version.) For example, you may want a viewer to display the TIFF file after it has been created. To open the TIFF file in the Kodak viewer, for example, type in "c:\windows\kodakprv.exe" (but check the correct path name). If you add a parameter, the driver will pass both the specified parameter and the output file name to the application (in that order, separated by a space). It is up to the application to parse and use the parameter string. The application can be selected with the 'Browse' button. In most cases a parameter is not required.

Graphics Formats

This Informatik Image Driver version supports several TIFF formats, both black/white and color. The driver also supports colored JPEG output. The default setting is TIFF Group 4 Single-Strip. The output graphics format is selected in the Printer Control Panel. Open the Layout tab section of the Printer Control Panel, click on Advanced button and select the Graphic section. For detailed instructions on how to access the Printer Control Panel, please read the Printer Control Panel section.

Please note that the graphics format selection made via the Print window persist for the life of the source file's application (for example Microsoft Word). When you re-launch the source file's application, the settings revert back to the defaults originally specified in the Printer Control Panel via the Start button.

Available formats are:

- JPEG Single-page only
- TIFF B/W Packbits
- TIFF 256-color Packbits
- TIFF B/W Packbits 1-Strip
- TIFF B/W Group 4
- TIFF B/W Group 4 1-Strip
- TIFF 24-bit Color Packbits
- TIFF 4-bit Color Packbits
- TIFF F-Class
- TIFF F-Class Reverse-Fill

The default format is **TIFF B/W Group 4 1-Strip**, the most commonly used TIFF format.

JPEG files are in high-quality 24-bit color and available only for single-page files (multi-page format is not supported in JPEG). In the Image Driver Properties dialog, specify the output file with a .tif extension, not a .jpg extension; the actual output file will have the .jpg extension. To convert a multi-page source file to JPEG, always use 'Serialization' in Document Mode. If you convert a multi-page source document in Document Mode, the first page will be named with the specified output file name; the subsequent pages will be named with a _1, _2, etc., suffix. Please note that JPEG conversions are much slower than TIFF conversions. JPEG should be used for photo-type images; the JPEG format is not ideal for black and white text documents (file conversion is very slow and the files sizes are large). If you must create black and white text documents in JPEG, use a resolution of 200x200 or less.

The **TIFF 4-bit (16 Colors) Packbits** and **8-bit (256 Colors) Packbits** formats are suitable only for solid color images, like charts, etc. Photographic images should be converted to either JPEG or TIFF 24-bit Color Packbits. Color processing requires significantly more memory than black

and white processing. If your computer does not have sufficient memory to process the colors, the driver will revert to black and white processing.

LZW compression is now available by special request.

Fax applications generally require the **TIFF F-Class** format. Old fax boards may require TIFF F-Class Reverse-Fill. For TIFF F-Class you must use a resolution of 200x200.

Resolution

The Resolution of the output file can be 72, 100, 200, 300,400 or 600. The default is 300. The resolution is changed in the Printer Control Panel (see Printer Control Panel section). Open the Layout tab section of the Printer Control Panel, click on the Advanced button and select the Graphic section. For detailed instructions on how to access the Printer Control Panel, please read Printer Control Panel section.

Please note that the resolution selection made via the Print window persists for the life of the source file's application (for example Microsoft Word). When you re-launch the source file's application, the settings revert back to the defaults originally specified in the Printer Control Panel via the Start button.

Please note that for the TIFF F-Class select resolution of 200x200, the driver internally will create a file with 204x196 resolution.

In order to minimize the size of the output files, for black and white JPEG output files and for TIFF 24-bit Color Uncompressed output files you should use the smallest possible resolution, consistent with your required output quality.

For other resolutions please see Customization section.

Paper size / Custom Paper Size

The paper size should be specified in the source document's application (e.g. File | Page Setup for Microsoft Word documents). The paper size specified in the source file application will always overwrite any paper size settings in the Informatik Image Driver. If the source document does not allow paper size specification, then you can set the paper size in the Printer Control Panel. Please see Printer Control Panel section). To emphasize, all paper size settings in the Informatik Image Driver Printing Preferences (Printer Control Panel) are ignored if the source document has its own specified paper size.

To create your own custom paper size, proceed as follows:

- Click on Start (bottom left corner of screen).
- Select Control Panel | Printers (do NOT select a printer)
- In the Printers (and Faxes) window, select File menu, then Server Properties.
- Check 'Create New Form' and type in 'New Form Name'.
- Continue as prompted.

Note again, that you must specify the paper size via the input document's Page Setup, before you request the print.

Orientation

The paper orientation must be specified in the source document's application (e.g. File | Page Setup for Microsoft Word documents). Although the Printer Control Panel includes options for Orientation, these are ignored by the Informatik Image Driver.

PDF Output

By simply checking the PDF Output checkbox in the Informatik Image Driver window (or in the Printer Control Panel), the output file will be in the PDF format with excellent compression. The PDF file has an embedded TIFF of the type and compression as specified in the printer control panel. Because the PDF file has an embedded TIFF it is a 'graphics' file and is thus not text-searchable.

If the PDF Output checkbox is checked, the output file will be PDF regardless of the extension name given for the file name; the PDF file will always have a .pdf extension (except if the file basename is followed by a period without an extension, in which case a file without an extension name will be created).

If the PDF Output checkbox is not checked, then a TIFF file will be created, even if the specified file name has a .pdf extension name.

Important: PDF output is possible only in Document Mode. PDF files cannot be created in Append or Serialization Mode.

If the source document is in color and you need color output files, ensure that the setting for color depth in the Printer Control Panel is set correctly. If the color depth is set to monochrome (for example in TIFF Group 4 format), the output file will be black and white regardless of the color depth of the source file. Please read the step-by-step instructions in the Graphics Formats section above.

Window Registry

The default output folder name, output file name and other settings are saved in the Windows Registry under

```
HKEY_CURRENT_USER Software HSM Generic Settings
```

For batch processing you can set the folder name programmatically with standard API functions. Only make changes to the Registry if you are familiar with it. For utilities and source code that allow you to make entries in the Registry please logon to www.informatik.com/vbcode.

This allows XP compatibility and the use of the API's :

```
SetPrinterData  
GetPrinterData
```

Warning! Before you make changes to the registry, you must be advised that the registry is the backbone of Windows. Don't make changes to the registry, or you could destroy Windows or other programs. If you decide to make changes to the registry, you should ensure that you have a good back up of your computer system.

Job and Pages Counter

The cumulative number of pages and the number of pages of the last print job are stored in the Windows Registry (see Windows Registry section above). This feature is useful if you run the driver within an application and you need to know when a print job is completed and how many pages have been created. Informatik Image Driver also creates a zero-size DONE_HSM.TIF file at the end of each print job. The DONE_HSM.TIF file is saved in c:\HSM directory. The DONE file is useful also for determining when a print job has been completed.

DONE_HSM.TIF Sentinel file

Informatik Image Driver creates a zero-size DONE_HSM.TIF file at the end of each print job. The DONE file is useful also for determining when a print job has been completed, perhaps in conjunction with the Job and Pages Counter registry postings.

When a print job is requested, the driver first deletes the DONE file; it then creates a new DONE file when the print job is completed. For a multi-page file (multi-page or serialized files), the DONE file is created only when the last page has been saved.

The location of the DONE_HSM.TIF is the directory of the TEMP environment variable. To see the directory name of the Sentinel file, type 'Set' in the DOS Command Prompt and press Enter, or simply have your application return the TEMP environment variable.

Network Installations

The driver can be installed on PCs, workstations and servers (including Windows Terminal Servers and Citrix), however, **server licenses** are required if the driver is shared. Server license fees are \$750.00 to \$3,250.00, scaled according to the number of workstations/terminals; the minimum being \$750.00 for 1-20 workstations/terminals. A special version is available for Citrix networks at a license fee of \$3,250.00. Prices are subject to change; please consult the current web pages or contact HSM Informatik AG or Informatik Inc.

If you plan to install the driver on a server as shared printer, please ensure that you obtained the server version and license for the correct number of workstations/terminals. Expert knowledge in server and network setup and operation is required.

If you use Informatik Image Driver on a network, it is recommended, for optimum performance and for ease of installation and operation, that you install the driver on each workstation (a license is required for each workstation). The footprint of the driver is only about 500k and it installs in about ten seconds.

You can output the TIF files to a net drive in two ways:

"M:\\" or "L:"
or
\\master2k\utils

Batch Processing

Some document types lend themselves for batch processing. For example, MS Word documents can be processed in a batch mode, programmatically, using the exposed objects of Word (OLE Automation). For some representative VB code please go online to www.informatik.com/vbcode. Batch processing can take advantage of entries in the Windows Registry and use the DONE_HSM.TIF sentinel file. See also the Windows Registry and the DONE_HSM.TIF Sentinel sections in this manual.

Script Addons, Customization, Other Software

For special addon **scripts** for features such as

Special file naming
Text annotations, watermarks
Special output graphics formats
etc.

and **special requirements**, such as silent installations, substituted resolutions, e-mail features, **customizations** to the driver, **custom solutions**, etc.

and other popular **programs**, such as

Textlog text extraction,
Tiff2PDF Tiff to PDF conversions,
PDF2Tiff PDF to Tiff conversions,
PNG conversions,
Tiff Tag utilities, etc.

please contact HSM Informatik AG or Informatik Inc. at these websites:

HSM Informatik AG (Switzerland) www.hsm.ch
Informatik Inc. (USA) www.informatik.com

Technical Support

For technical support please visit <http://www.plusdrivers.com/faq/cache/1.html> or contact support@hsm.ch.

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6. GOVERNING LAW

The legal jurisdiction of this License Agreement shall be Lucerne, Switzerland.

HSM Informatik AG Guarantee

for the Informatik Image Driver

Version 3.0 Date: August 2004

All reported errors or printing problems will be corrected within the year of guarantee under the following conditions:

- 1) The error must be reproducible

- 2) The application in which the error occurs must have been released at the time of the driver release.

Please report problems as follows:

- 1) Description of the error
- 2) Send the document
- 3) The outputted TIFF file
- 4) Should the error occur with a non-standard application, please send the application if possible.

All reported errors or problems will be answered within 5 working days. We will comment if the error is due to

- 1) System
- 2) Application
- 3) User
- 4) Driver

If we can confirm that the error is due to a driver bug, the error will be corrected within a suitable period of time.